

WADS: A New Visual Display System

Window size and configurations of single-seat military aircraft and next-generation commercial transport aircraft require the display of larger fields of view. Rediffusion Simulation Incorporated has developed and is now producing the new Wide Angle Display System (WADS) which meets this need.

WADS is a modular, single-viewpoint, CRT-driven display which provides near-infinity large-angle fields of view in a format compatible with the Novoview SP1. WADS preserves the excellent image quality of beam-penetration night/dusk scenes, as well as resolution, contrast ratios and light point size. Overall system design permits outstanding optical performance, allowing normal pilot head movement and instructor field of view.

Substantially Increased Field of View

In its single display form, WADS presents a 55° by 43° field of view, a 64 percent instantaneous field increase over the standard optical arrangement. WADS multi-channel arrangements provide a continuous field

of view with no observable structural members, panels or beam-splitter seams between displays.

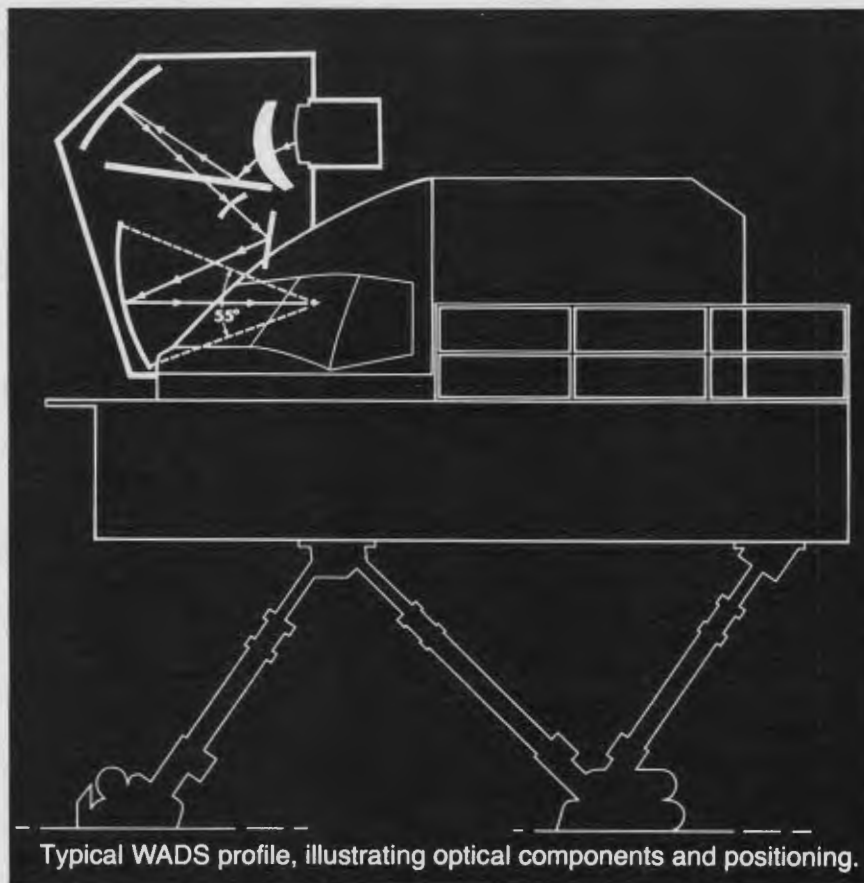
Attractive juxtapositioning features are possible because there are no visible obstructions. WADS displays can be oriented with

the major axes in horizontal, vertical or mixed positions. Juxtapositioning three displays with the major axes vertical can result in a 120° horizontal by 55° vertical instantaneous field of view. Or a 156° by 43° field of view can be

achieved with the three major axes in the horizontal position. This feature provides great flexibility in satisfying particular field-of-view training requirements, including severe over-the-shoulder-look angles.

Simulator Compatibility

The Rediffusion WADS is compatible with all known transport aircraft. Since the system's introduction, it has been sold to three major commercial airlines for integration to Boeing 747, 757 and 767 flight simulators, including configurations for four, five and six windows.



System Features

- Near-Infinity Image
- CRT Input
- High Image Quality
- Large Field of View (55° by 43° for Single Modules)
- Attractive Juxtapositioned Features
- Vertical or Horizontal Orientation

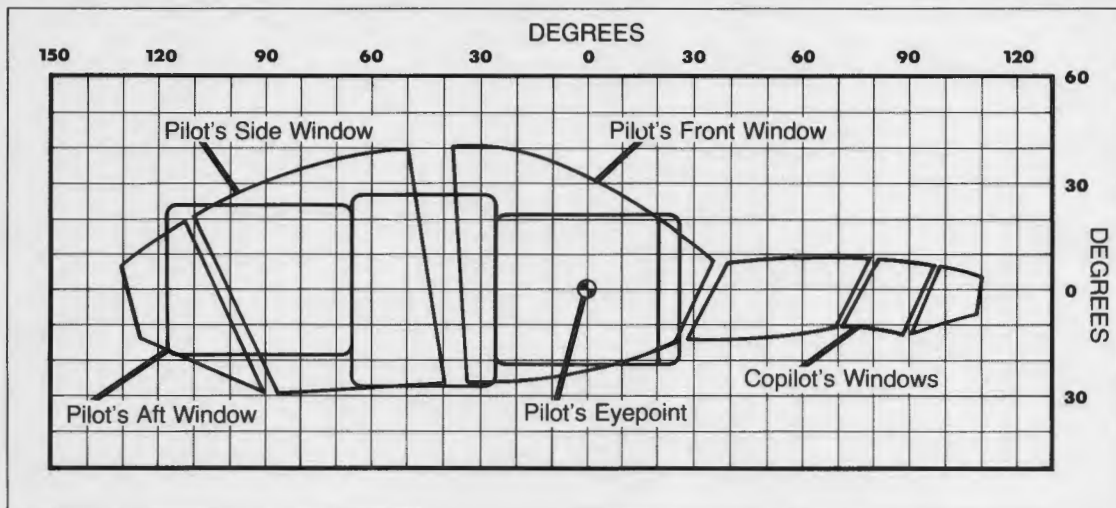


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WADS patent pending.

WADS: WIDE ANGLE DISPLAY SYSTEM



Displays can be vertically offset with respect to one another to accommodate varying side view requirements while maintaining the juxtaposed concept.



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